

feet in height. The sight presented by the beautiful cylindric racemes of berries is very grand. I was curious to estimate the quantity of this purplish fruit. We counted over 1800 racemes, whose average weight was 1 oz. averdu-
pois each, thus making a little more than 112 pounds of berries on one plant. The robins are feasting daily upon them; and they are welcome, although I hope some will be left for the snow birds.—S. LOCKWOOD, *Freehold, N. J. Oct. 22, 1881.*

A Second Spring in Ark.—This season has been such a peculiar one that 'Dame Nature' has become confused.

Vegetation was luxuriant in this region during the spring and early summer months.

Plants put forth rapidly and made a vigorous growth.

There was scarcely any rainfall from June until October.

All the summer and autumn species of plants were dwarfed.

During the continued drouth vegetation assumed a dead like appearance as though killed by frost. Foliage of the trees was dull and shriveled. Meadows and lawns were as brown as stubble fields. The vital forces were apparently suspended, and plants seemed to be taking their periodical rest after a season of activity. The shoots that grew in the spring had the appearance, at the close of the drouth, of wood hardened by the suspension of growth and the approach of winter.

The copious fall of rains set in. A *second* spring arrived and as by magic the earth was transformed into a garden.

Nature was enticed to make a second growth which was scarcely interrupted until the hard freeze on the night of Nov. 19th.

Flower and leaf buds formed by the early spring growth were lured into development by the warm sun and copious showers.

Pear, peach, plum, cherry and apple trees and Japonicas have been in full bloom this fall and on some trees young fruit has formed.

Garden perennials have had a second season of blooming and many summer and fall wild perennial herbs revived and continued to bloom until the freeze.

There will certainly be two layers of woody tissue in the exogens of this region representing the growth of 1881.

Are the flower buds of plants formed, *ordinarily*, the spring or season previous to their development?

Is it not probable, that these trees during their second growth, formed new flower buds to take the place of those untimely developed?

Are there latent flower as well as leaf buds which may develop blossoms in cases of emergency?—F. L. HARVEY, ARK. IND. UNIV., *Fayetteville, Ark.*